



Capt Patla PACAF/DOWX



Briefing Summary:



- PACAF METSAT Plans & Requirements (DOV Mission Statement: Evaluates technical requiremental arranges environmental support for PACAF project studies, or programs.
- PACAF INSTRUCTION 15-102 (DOWV)
 - -- Changes since 1997
 - -- Near future revisions
- TACTERMS (DOWX)
 - -- MARK IVB
 - -- Small Tactical Terminal (STT)
 - -- Joint METSAT Ingest Software and Terminal (JMIST) CONOPS Overview

METSAT Programs and Requirements

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- The DOWX task is to validate requirements and to help AFWA rank order requested improvements at Review Boards
- 'JTWC, Elmendorf, Kadena, and Andersen have all submitted suggestions for improvements to M4B.
- Please submit METSAT requirements in writing to PACAF/DOW
 - E-mail and Phone calls are no



PACAFI 15-102

Changes since 1997:



- 607 WS TC fix responsibilities are limited to determination and reporting of center posit
- AFWA/XOGM will provide backup SATOPS fix support to JTWC/AJTWC
- Redefined the Korean WDPN responsibility
 - 607 WS issues WDPN instead of Osan a Kunsan AB (Reengineering)
 - The 607 WS provides area forecasts for AOR in the Tropical Cyclone Discussion Bulletin, WHKO RKSZ
- Refinement of Radar TC fix procedures
 - Provided more guidance and detail



PACAFI 15-102

Near Future Revisions:



- JTWC SATOPS gained CPHC DMSP fix responsibility and the Hickam MSC
- Centralized PACAF METSAT fix responsibility to JTWC
- Mark IVB remote client troubleshooting pro
 - Include local Comm Sq in troubleshooting
- Assign Mark IVB Geo-ingest (MET 5, GMS-5,



Current Geo METSAT Ingest Opportunities



Only Kadena can get Meteosat 5 (Left)

Hickam (and Elmendorf) can get GOES W (Right)

Kadena, Andersen and Hickam can all get GMS/MTSAT (Bottom)









Kadena

Andersen

Hickam



Proposed Geo METSAT Ingest Assignment

- Hickam M4B GOES West
- Andersen GMS (and MTSAT)
- Kadena Meteosat 5



Avoid duplication and get geostationary coverage over entire AOR.

All Mark IVB sites & OWS can access each others imagery, both geo and regional polar

Additional Clients or GIDSView users can get high res GEO (and DMSP) METSAT imagery without



TACTERM Status & Netwo



Direct Readout Terminals (DRT) for HRES Geo:

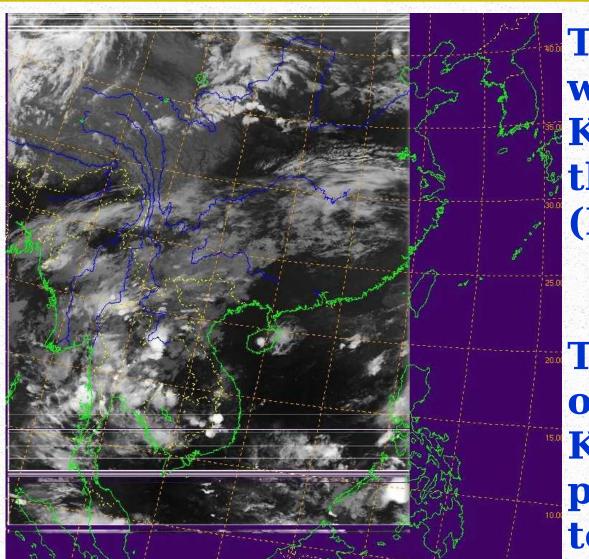
- Mark IVB and JTFST/H-STT
- -- Currently can not "talk" to each other due to different data files and interfaces
- Mark IVB offers Client/Server capabilities
- -- This will allow centralized PACAF METSAT

fixing at JTWC

- H-STT will eventually have W-STT (T)-



Remote client capabilitie

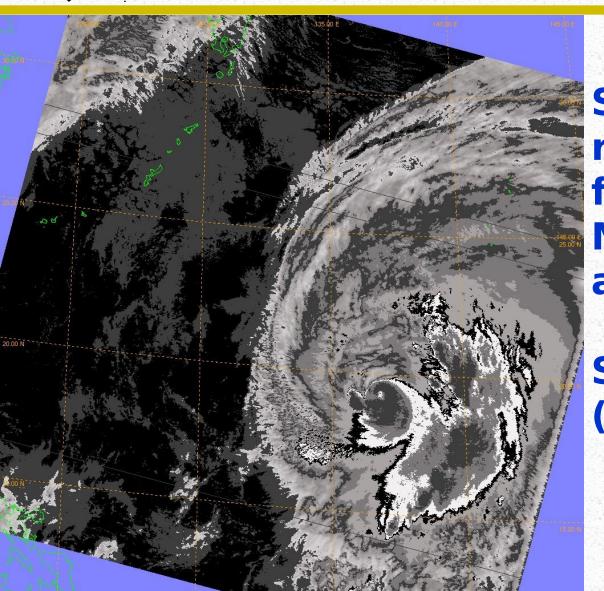


This image was sawhile accessing the Kadena server from the Valley Forge Martin

The satellite was I on the horizon from Kadena, but still provided the ability to view into SE As



Remote client capabilitie



Sample client DM received by JTWC from the Kadena M4B server shortlafter ingest.

Super Typhoon 01 (Damrey)



JMIST Background

(Joint METSAT Ingest Software and Terminal)



- Current systems are too costly to maintain individually
 - Need to reduce number of terminals
- Need to apply reengineering concepts
 - Reduce training and maintenance
 - Reduce deployed footprint (pallet load)
 - Define roles & responsibilities of OWS & CWTs
 - Reduce CWT's COMSEC requirements
- Need to define interface to C2 systems
- Need to prepare for NPOESS and



JMIST System Components

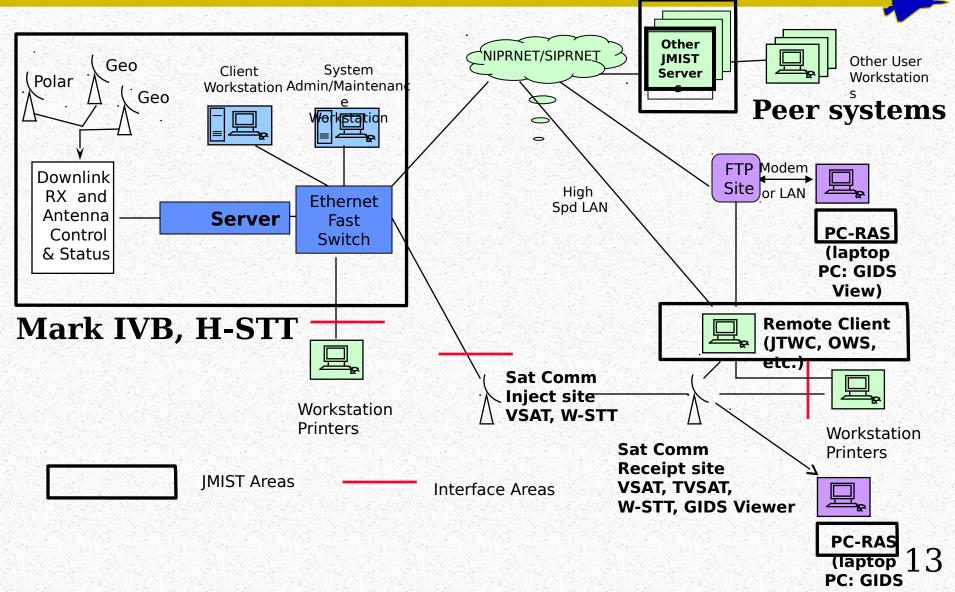


- Common METSAT Software
- Common Fixed & Deployed Direct Readout Terminals
- Client and Remote Client Workstations
- PC Remote Application System (PC-RAS)
- Common Database Format -- georeferenced data sets
- Data Distribution System
 - Produce common format products (e.g., GIF, etc.)
 - Exploit standard comm protocols (e.g., TCP/IP)
 - Common user and satellite comm (e.g., NIPRNET/SIPRNET, GBS, commercial comm, etc.)

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Nominal JMIST Architecture





Questions????





